

Title (en)

METHOD, DEVICE, AND STORAGE MEDIUM FOR PREVENTING FALSE TOUCH OF SCREEN

Title (de)

VERFAHREN, VORRICHTUNG UND SPEICHERMEDIUM ZUR VERHINDERUNG FALSCHER BILDSCHIRMBERÜHRUNGEN

Title (fr)

PROCÉDÉ, DISPOSITIF ET SUPPORT D'ENREGIREMENT POUR LA PRÉVENTION DE MAUVAIS TOUCHER SUR UN ÉCRAN TACTILE

Publication

EP 3879309 A1 20210915 (EN)

Application

EP 20198749 A 20200928

Priority

CN 202010175392 A 20200313

Abstract (en)

The present disclosure relates to a method, device and storage medium for preventing a false touch of a screen. The method further comprises: sending a bandpass ultrasonic signal; receiving a reflected ultrasonic signal; calculating frequency domain information of the reflected ultrasonic signal; calculating at least one ultrasonic feature vector according to the frequency domain information, the ultrasonic feature vector being used to characterize movement state information of the mobile terminal approaching or moving away from an obstacle; constructing a feature vector set comprising the at least one ultrasonic feature vector; determining whether a condition for preventing a false touch is met according to the feature vector set; disabling a touch function of the touch screen in a case where the condition for preventing the false touch is met. The present disclosure can more accurately learn movement of the mobile terminal, improve the accuracy of disabling the touch function of the touch screen, and effectively prevent a user from the false touch of the touch screen, and particularly, effectively prevent the interruption of a call caused by the contact between the touch screen and a face during the call.

IPC 8 full level

G01S 15/04 (2006.01); **G06F 3/041** (2006.01)

CPC (source: CN EP US)

G01S 15/586 (2013.01 - EP); **G01S 15/60** (2013.01 - EP); **G01S 15/88** (2013.01 - EP); **G06F 3/0416** (2013.01 - EP); **G06F 3/04166** (2019.04 - US); **G06F 3/0418** (2013.01 - CN); **G06F 3/04186** (2019.04 - US); **G06F 3/043** (2013.01 - CN); **G06F 3/0436** (2013.01 - US); **G06F 3/0488** (2013.01 - CN); **G06N 3/08** (2013.01 - US); **H04M 2250/12** (2013.01 - CN); **H04M 2250/22** (2013.01 - CN)

Citation (search report)

- [XAYI] EP 3414598 A2 20181219 - ELLIPTIC LABORATORIES AS [NO]
- [XA] GB 2558768 A 20180718 - ELLIPTIC LABORATORIES AS [NO]
- [XAYI] CN 108845324 A 20181120 - BEIJING XIAOMI MOBILE SOFTWARE CO LTD

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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